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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address C. MMINSTONER OF FATEN IS AND TRADEMARKS Proceedings of the Commercial Commerc

DATE MAILED: 05 27/2003

APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO
09 629,482	07 31 2000	Franz Josef Brocker	50487	4024
26474	2590 05 27 2003			
KEIL & WEINKAUF			EXAMINER	
	CONNECTICUT AVENUE, N.W. BHINGTON, DC 20036		DANG, THUAN D	
			ART UNIT	PAPER NUMBER
			1764	

Please find below and/or attached an Office communication concerning this application or proceeding.

		525				
	Application No.	Applicant(s)				
Office Action Summany	09/629,482	BROCKER ET AL.				
Office Action Summary	Examiner	Art Unit				
TI MANUALO DATE MANUALO DATE	Thuan D. Dang	1764				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	e correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) o will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDO	timely filed days will be considered timely om the mailing date of this communication. NED (35 U S C § 133)				
1) Responsive to communication(s) filed on 07	April 2003 .					
2a) This action is FINAL . 2b) ✓ Th	is action is non-final.					
Since this application is in condition for allows closed in accordance with the practice under Disposition of Claims						
4) Claim(s) 1-16 is/are pending in the application.						
4a) Of the above claim(s) <u>1-10</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claım(s) <u>11-16</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on 31 July 2000 is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Ex	raminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domest	ic priority under 35 U.S.C. § 11	9(e) (to a provisional application).				
a) The translation of the foreign language pro	• •					
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

- I. Claims 1-10, drawn to and apparatus, classified in class 422, subclass 190.
- II. Claims 11-16, drawn to a chemical process, classified in class 585, subclass 270.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus as claimed can be used to practice another and materially different process such as purification of exhaust gas.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

During a telephone conversation between Ms. Schwalge and examiner Lueng on 5/5/2003 a provisional election was made with traverse to prosecute the invention of group II, claims 11-16. Affirmation of this election must be made by applicant in replying to this Office action. Claim1-10 withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

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currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Specification

The disclosure is objected to because of the following informalities: the tops of pages of the specification have not enough blank space for holes made by hole puncher. Therefore, typings at the top of pages are punched off.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 11, 12, 15, and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 98/16463 (equivalent to US patent 6,375,920).

WO discloses a process of including a step of dispersing a gas stream 8 with a liquid stream 7 in the disperser 6 to generate a reaction fluid which is fed to a reactor including catalyst layers 3 substantially the same as the applicants' claimed catalyst. The reactor has walls at which heat between the reaction and surroundings must be transferred as established by thermodynamic law. The product is then separated into a gas stream and a liquid stream which is partially

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recycled to the reaction via stream 18 (see the figure; the abstract; col. 3, line 5 thru col. 7, line 25 of the US equivalence).

The condition of the process as called for in claims 15, and 16 can be found on column 6, lines 28-43 of the US equivalence.

Claim Rejections - 35 USC § 103

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 98/16463 (also English Equivalence US patent 6,375,920).

WO discloses a process as discussed above.

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WO appears to be silent as to superficial liquid/gas velocity. However, These parameters depend on the size of the reactor and selected conversion.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the WO process by selecting appropriate velocities of gas/liquid to optimize the process. Further, it is expected that using any velocities of gas and/or liquid would yield similar product.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuan D. Dang whose telephone number is 703-305-2658. The examiner can normally be reached on Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 703-308-6824. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-5408 for regular communications and 703-305-3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Thuan D. Dang Primary Examiner Art Unit 1764

91629482.1st May 21, 2003